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› Pro Chaser Carburetor Instruction Manual for Troy-Bilt, Craftsman, and MTD Snow Blower Engines

Pro Chaser Troy-Bilt 208-E, Craftsman SB245, MTD 952Z265-JUA, MTD 952Z270-JUA

Pro Chaser Carburetor Instruction Manual

For Troy-Bilt, Craftsman, and MTD Snow Blower Engines

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your new Pro Chaser Carburetor. This carburetor is designed for compatibility with various snow blower engines, including:

- Troy-Bilt 208-E (Model 31AS2T7G766)
- Craftsman SB245 (Model CMGSB21179, 31AS2S5D791)
- MTD Engines (Models 952Z265-JUA, 952Z270-JUA)

Please read this manual thoroughly before attempting any installation or maintenance to ensure proper function and safety.

Package Contents:

- 1 x Carburetor
- 2 x Fuel Hose
- 2 x Fuel Filter
- 1 x Shut Off Valve
- 1 x Primer
- 3 x Gaskets



Image 1: Overview of the Pro Chaser Carburetor kit, showing the main carburetor unit, two fuel hoses, two fuel filters, a shut-off valve, a primer bulb, and three gaskets.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your snow blower engine. If you are unsure about any step, it is recommended to consult a qualified technician.

Safety Precautions:

- Always disconnect the spark plug wire before beginning any work on the engine to prevent accidental starting.
- Ensure the engine is cool before handling components.
- Work in a well-ventilated area.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Drain all fuel from the fuel tank before removing the old carburetor.

Installation Steps:

1. **Verify Compatibility:** Carefully compare the design and dimensions of the new Pro Chaser carburetor with

your existing carburetor. Minor design differences can affect fitment. Refer to the provided images for visual confirmation.



Image 2: Front view of the carburetor with critical dimensions highlighted, including the mounting hole spacing of 40.9mm (1.61 inches).

2. **Remove Old Carburetor:** Disconnect fuel lines, throttle linkage, and choke linkage. Unbolt the old carburetor from the engine.
3. **Clean Mounting Area:** Ensure the engine's mounting surface is clean and free of old gasket material.
4. **Install New Gaskets:** Place the new gaskets provided in the kit onto the engine and carburetor mounting surfaces as required.
5. **Mount New Carburetor:** Carefully position the new Pro Chaser carburetor and secure it with the original bolts. Do not overtighten.



Image 3: Detailed front view of the Pro Chaser Carburetor, showing the air intake and fuel inlet.

6. **Connect Linkages:** Reattach the throttle and choke linkages to the new carburetor. Ensure they operate smoothly without binding.
7. **Install Fuel System Components:** Install the new fuel shut-off valve, fuel filters, and fuel hoses as needed. Ensure all connections are secure and leak-free.



Image 4: Side view of the carburetor, displaying the '170JUA' model identifier and fuel line connection point.

8. **Connect Primer:** Install the new primer bulb and connect its hose to the carburetor if applicable.

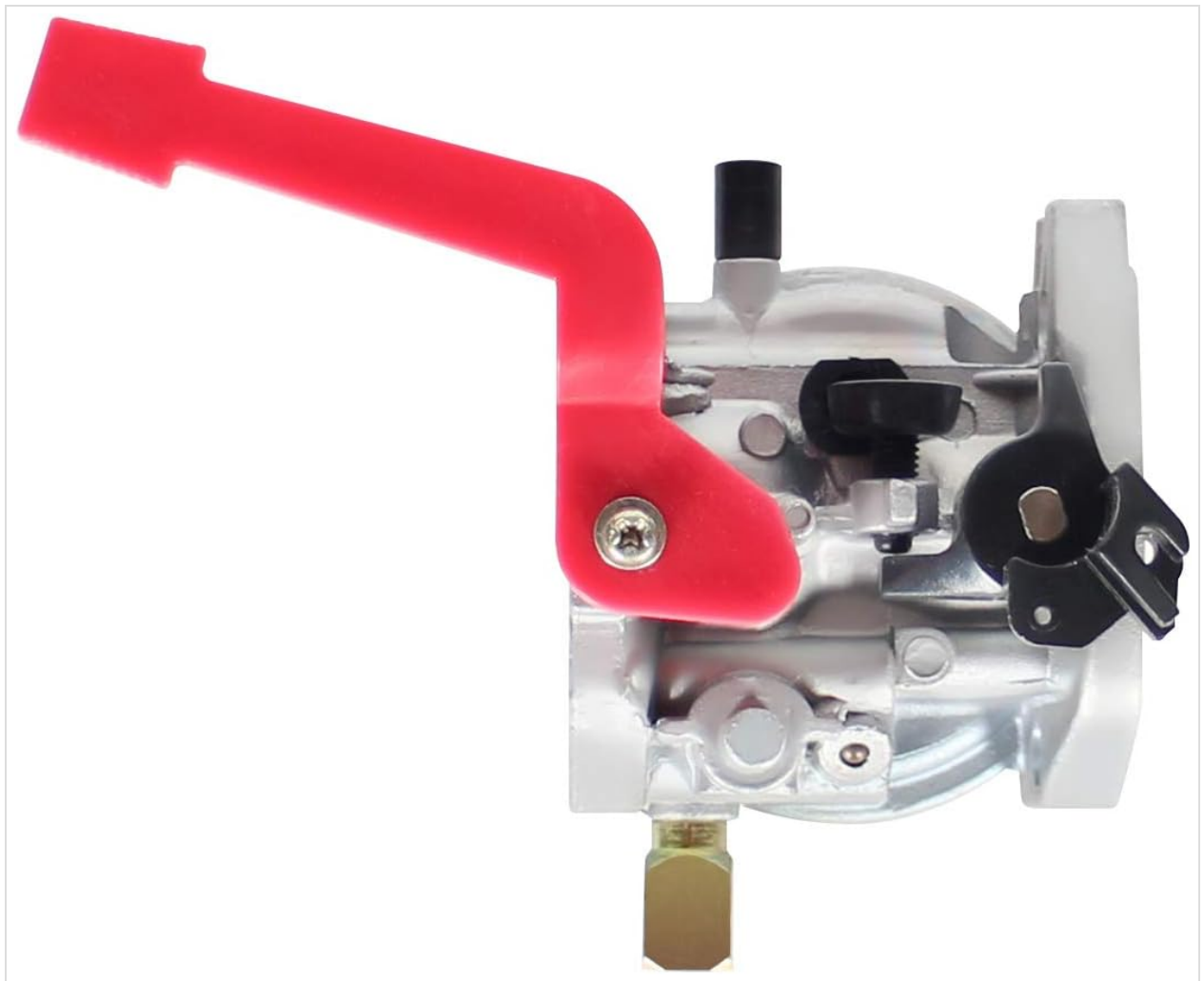


Image 5: Opposite side view of the carburetor, highlighting the red choke lever and additional linkage points.

9. **Reconnect Spark Plug:** Once all connections are secure, reconnect the spark plug wire.

3. OPERATING INSTRUCTIONS

After installing the new carburetor, follow these steps for initial engine startup:

1. **Refill Fuel Tank:** Add fresh, clean fuel to the snow blower's fuel tank. Ensure the fuel shut-off valve is in the OPEN position.
2. **Prime the Engine:** Press the primer bulb several times (typically 3-5 times, or until fuel is visible in the primer bulb) to draw fuel into the carburetor.
3. **Set Choke:** Move the choke lever to the FULL CHOKE position.
4. **Start Engine:** Pull the starter cord firmly or engage the electric starter until the engine fires.
5. **Adjust Choke:** As the engine warms up (usually within 10-30 seconds), gradually move the choke lever to the RUN position.
6. **Allow Warm-up:** Let the engine run for a few minutes to reach operating temperature before engaging the snow blower functions.

4. MAINTENANCE

Regular maintenance of your carburetor and fuel system components will ensure reliable performance and extend the life of your snow blower.

Recommended Maintenance:

- **Fuel Quality:** Always use fresh, clean, and stabilized fuel. Stale or contaminated fuel is a primary cause of

carburetor issues.

- **Fuel Filter Replacement:** Inspect and replace the fuel filters annually or more frequently if operating in dusty conditions or if fuel flow is restricted. Two new fuel filters are included with your Pro Chaser carburetor kit.
- **Carburetor Cleaning:** If the engine experiences performance issues, the carburetor may require cleaning. This typically involves disassembling the carburetor and cleaning jets and passages with carburetor cleaner. This procedure should only be performed by individuals familiar with small engine repair.
- **Fuel Shut-Off Valve:** Utilize the fuel shut-off valve when storing the snow blower for extended periods to prevent fuel from sitting in the carburetor bowl.

5. TROUBLESHOOTING

If your snow blower engine experiences issues after carburetor installation, refer to the following troubleshooting guide:

Symptom	Possible Cause	Solution
Engine will not start	No fuel reaching carburetor Improper choke setting Clogged fuel filter	Check fuel level and shut-off valve position Ensure choke is set correctly for starting Replace fuel filter
Engine runs rough or stalls	Dirty carburetor jets Stale fuel Air leak at gaskets	Clean carburetor (professional service recommended) Drain old fuel and refill with fresh, stabilized fuel Inspect and replace gaskets if damaged
Fuel leaks from carburetor	Loose fuel line connections Damaged float bowl gasket Stuck float	Tighten fuel line clamps Inspect and replace float bowl gasket Clean carburetor to free the float
Engine lacks power	Partially clogged fuel filter Carburetor not adjusted properly	Replace fuel filter Consult a service manual for carburetor adjustment procedures

If these steps do not resolve the issue, it is advisable to seek assistance from a qualified small engine mechanic.

6. SPECIFICATIONS

- **Brand:** Pro Chaser
- **Product Type:** Carburetor
- **Compatible Snow Blower Models:** Troy-Bilt 208-E (31AS2T7G766), Craftsman SB245 (CMGSB21179, 31AS2S5D791)
- **Compatible Engine Models:** MTD 952Z265-JUA, MTD 952Z270-JUA
- **UPC:** 750439951069
- **Mounting Hole Spacing:** Approximately 40.9 mm (1.61 inches)
- **Manufacturer:** Pro Chaser

7. WARRANTY AND SUPPORT

For specific warranty information regarding your Pro Chaser Carburetor, please refer to the documentation included with your purchase or contact the seller directly. For technical support or assistance with installation and troubleshooting, please reach out to Pro Chaser customer service.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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